



SFW  
Docket No. 102-1003

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:

Eun-bong HAN

Application No.:	10/720,173	Group Art Unit No.:	2853
Filed:	November 25, 2003	Examiner	Leonard S. Liang
Customer No.:	38209	Confirmation No.	4330
For:	INKJET PRINTER HEAD DRIVING APPARATUS AND CONTROL METHOD THEREOF		

**INFORMATION DISCLOSURE STATEMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Sir:

In accordance with the duty of disclosure provisions of 37 CFR § 1.56, there is hereby provided certain information which the Examiner may consider material to the examination of the subject U.S. patent application. It is requested that the Examiner make this information of record if it is deemed material to the examination of the subject application.

1.  Enclosures accompanying this Information Disclosure Statement are:
  - 1a.  Form PTO-1449.
  - 1b.  Copies of IDS citations.
  - 1c.  A copy of search report(s) from a counterpart foreign application or a PCT International Search Report.
  - 1d.  English language translation (abstracts only) attached to each non-English language publication.
  - 1e.  Explanations of Relevancy of References (ATTACHMENT 1(e), hereto) for providing a concise explanation of each non-English publication.
  - 1f.  List of Co-pending Applications (PTO/SB/08b, attached hereto).
  - 1g.  List of Additional Submitted Documents (PTO/SB/08b, attached hereto).
2.  This Information Disclosure Statement is filed under 37 CFR §1.97(b):  
*(Check either Item 2a or 2b or 2c or 2d)*
  - 2a.  Within three months of the filing date of a national application other than a Continued Prosecution Application under §1.53(d);
  - 2b.  Within three months of the date of entry of the national stage as set forth in §1.491 in an international application.

2c.  Before the mailing of a first Office Action on the merits; or  
2d.  Before the mailing of a first Office Action after the filing of a Request for Continued Examination under §1.114.

3.  This Information Disclosure Statement is filed under 37 CFR §1.97(c) after the period specified in paragraph 2 above, but before the mailing date of any of a Final Office Action under §1.113, a Notice of Allowance under §1.311 or an action that otherwise closes prosecution in the application, AND  
*(Check either Item 3a or 3b; Item 3b to be checked if any reference known for more than 3 months)*

3a.  The §1.97(e) Statement in Item 5 below is applicable; OR  
3b.  The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:  
 enclosed.  
 to be charged to Deposit Account No. 502827.

4.  This Information Disclosure Statement is filed under 37 CFR §1.97(d) after the period specified in paragraph 3 above, but on or before payment of the Issue Fee, AND  
4a.  The §1.97(e) Statement in Item 5 below is applicable; AND  
4b.  The \$180.00 fee set forth in 37 C.F.R. §1.17(p) is:  
 enclosed.  
 to be charged to Deposit Account No. 502827.

5.  Statement under §1.97(e) (*applicable if Item 3a or Item 4 is checked*)  
*(Check either Item 5a or 5b)*

5a.  In accordance with 37 CFR §1.97(e)(1), it is stated that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

5b.  In accordance with 37 CFR §1.97(e)(2), it is stated that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known by any individual designated in §1.56(c) more than three months prior to the filing of this Information Disclosure Statement.

6.  This is a continuation/divisional/continuation-in-part application under 37 CFR § 1.53(b).  
*(Check appropriate Items 6a and/or 6b)*

6a.  Copies of the publications listed on the attached Form PTO-1449 which were previously cited in prior application Serial No. \_\_\_, filed on \_\_\_, and which is relied on for an earlier effective filing date for the subject

application under 35 U.S.C. §120, have been omitted pursuant to 37 CFR § 1.98(d).

6b.  Copies of the publications listed on the attached Form PTO-1449 which were not previously cited in prior application Serial No. \_\_\_, filed on \_\_\_, and which is relied on for an earlier effective filing date for the subject application under 35 U.S.C. §120, are provided herewith.

7.  This is a continuation/divisional application under 37 CFR §1.53(d) or Request for Continued Examination under 37 CFR 1.114.  
*(Check either Item 7a or 7b)*

7a.  The Issue Fee has not been paid.

7b.  A Petition to Withdraw from issue under 37 CFR §1.313(c) is filed concurrently herewith or has been granted. A continuation application under 37 CFR §1.53(d) or Request for Continued Examination under 37 CFR 1.114, after payment of the Issue Fee is proper in accordance with 37 CFR §1.53(d)(1)(ii) or 37 CFR 1.114(a), respectively.

8.  This is a Supplemental Information Disclosure Statement.  
*(Check either Item 8a or 8b)*

8a.  This Supplemental Information Disclosure Statement under 37 CFR §1.97(f) supplements the Information Disclosure Statement filed on \_\_\_. A bona fide attempt was made to comply with 37 CFR §1.98, but inadvertent omissions were made. These omissions have been corrected herein. Accordingly, additional time is requested so that this Supplemental IDS can be considered as if properly filed on \_\_\_.

8b.  This Supplemental Information Disclosure Statement is timely filed within one (1) month of the Notice under 37 CFR §1.97 and 1.98, mailed \_\_\_.  
(MPEP 609 C(1), Form & 6.49, Rev. 1, Feb. 2000, pp. 600-107)

9.  In accordance with 37 CFR §1.98, a concise explanation of what is presently understood to be the relevance of each non-English language publication is:  
*(Check appropriate Items 9a, 9b, 9c and/or 9d)*

9a.  satisfied because all non-English language publications were cited on the enclosed English language copy of the PCT International Search Report or the search report from a counterpart foreign application indicating the degree of relevance found by the foreign office. (See U.S. Patent & Trademark Office's authorization in the Federal Register, Vol. 57, No. 12, January 17, 1992, at page 2031 (Reply to Comment 68).)

9b.  set forth in the application.

9c.  satisfied because an English abstract is attached to each non-English language publication.

9d.  enclosed as Attachment 1(e), hereto.

10. No admission is made that the information cited in this Statement is, or is considered to be, material to patentability nor a representation that a search has been made (other than

search report(s) from a counterpart foreign application or a PCT International Search Report, if submitted herewith). 37 CFR §§ 1.97(g) and (h).

11. The Commissioner is authorized to credit any overpayment or charge any additional fee required under 37 CFR §1.17 for this Information Disclosure Statement and/or Petition to Deposit Account No. 502827.

Respectfully submitted,

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PTO/SB/08a(08/03)

Approved for use through 7/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<p><b>Substitute for form 1449A/PTO</b></p> <p><b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b></p> <p>Sheet _____ of _____</p>	<p><b>Complete if Known</b></p> <hr/> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Application No.</td> <td style="width: 50%;">10/720,173</td> </tr> <tr> <td>Filing Date</td> <td>November 25, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Eun-bong HAN</td> </tr> <tr> <td>Art Unit</td> <td>2853</td> </tr> <tr> <td>Examiner Name</td> <td>Leonard S. Liang</td> </tr> <tr> <td>Attorney Docket No.</td> <td>102-1003</td> </tr> </table>	Application No.	10/720,173	Filing Date	November 25, 2003	First Named Inventor	Eun-bong HAN	Art Unit	2853	Examiner Name	Leonard S. Liang	Attorney Docket No.	102-1003
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Examiner Name	Leonard S. Liang												
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## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

Examiner Signature		Date Considered	
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<sup>1</sup>\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application. <sup>2</sup>Applicant's unique citation designation number (optional). <sup>3</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>4</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard St.3). <sup>5</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>6</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to take place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08b(07/05)

Approved for use through 6/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449B/PTO		Complete if Known	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Sheet _____ of _____		Application No. 10/720,173 Filing Date November 25, 2003 First Named Inventor Eun-bong HAN Art Unit 2853 Examiner Name Leonard S. Liang Attorney Docket No. 102-1003	

**NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of time (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Japanese Office Action dated December 26, 2006 issued in JP 2003-409265.	<input type="checkbox"/>
			<input type="checkbox"/>

Examiner Signature	Date Considered
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\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line though citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.